

State of West Virginia Department of Health and Human Resources

Bureau for Public Health Office of Environmental Health Services

Standard Operating Procedures:

Stage 1 and Stage 2 Disinfectants and Disinfection Byproducts Rules

(For use with SDWIS/State)

December 2013

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Rule Overview

West Virginia Department of Health and Human Services (WVDHHR) has primacy enforcement authority for the federal Stage 1 and Stage 2 Disinfectant and Disinfection Byproducts Rules (DBPRs). As such, WVDHHR must ensure that public water systems (PWSs) comply with DBPRs. To ensure compliance, the Central Office (CO) staff must determine PWS sample schedules, facility analyte levels (FANLs), review calculations, assign violations, and prepare and track compliance schedules. The CO uses the Safe Drinking Water Information System (SDWIS)/State to enter and maintain sample schedules, FANLs, review results, migrate violations, enter enforcement actions, enter and maintain compliance schedules, and view compliance reports. DBPRs are well-established in WV. As such, this SOP does not cover the sample site selection process, or sampling plan approval.

This SOP is intended to compliment the SDWIS/State User's Guide.

Purpose

The purpose of this SOP is to explain:

- 1. Determine and enter DBPR Sample Schedules into SDWIS/State.
- 2. Enter and maintain FANLs in SDWIS/State.
- Review DBPR Compliance Decision Support (CDS) reports in SDWIS/State.
- Enter and maintain DBPR Compliance Schedules in SDWIS/State.
- 5. Assign violations in SDWIS/State.

6. Enter enforcement actions in SDWIS/State.

This document is meant to be a companion to the existing regulations and guidance documents used by the DBPR Coordinator.

Resources

The DBPR Rule coordinator must have read/write access to SDWIS/State and be assigned the role of Compliance Officer. Because this person acts as a subject matter expert (SME) for the DBPR and is responsible for developing compliance schedules and entry into SDWIS/State, the DBPR coordinator must have completed SDWIS/State training and be familiar violation codes as well as analyte groups and analyte codes.

The SDWIS/State Administrator or a staff member with the SDWIS/State role "SA" should be available to manage and answer questions regarding the data system, as needed.

Required Information/Data

The DBPR coordinator and staff must have access to the following SDWIS/State areas:

- 1. Inventory.
- 2. Sampling.
- 3. Monitoring.
- 4. Enforcement.
- 5. Compliance Determination (Setup and Reports).
- 6. Enforcement Tracking Tool Spreadsheet.

DBPR SOP: OVERVIEW 4 DECEMBER 2013

SECTION 1. DBPR Facility Analyte Levels (FANLs)

Sample schedules and FANLs must be added must be added according to the type of source water the PWS has and the type of disinfectant the PWS adds. In WV, sample schedules and FANLs have been entered for existing systems.

If a PWS modifies treatment, the existing schedules and FANLs may need to be changed.

For new PWSs:

- 1. Enter the Maximum Residence Time Sample Point;
- 2. Add FANLs;
- 3. Add sample schedules.

Determine the TTHM and HAA5 sample schedule for any new PWSs that add a disinfectant.

Initial sampling frequency:

	Stage 1 DBPR TTHM and HAA5-Initial Sampling Schedule								
Groundwat	ter		Surface Water						
Populatio n Sampling Frequency		# of Samples	Populatio n	Sampling Frequency	# of Samples				
<10,000	Each Year	1	<500	Each Year	1				
>=10,000	Each Quarter	1	500-999	Each Quarter	1				
-			>=10,000	Each Quarter	4				

Sampling location for Stage 1 TTHM and HAA5: the place of maximum residence time in the distribution system. Annual samples must be collected during the month of warmest water temperature.

STEP 1.2

FANLs records must be present in SDWIS/State for each PWS that adds a disinfectant. SDWIS/State uses these records to determine compliance and identify candidate violations. FANL records are present for existing PWS.



If treatment changes or the level that an existing PWS must comply with changes, the CO will need to update the FANL record.

FANLs for New PWS

Treatment: Chlorine or Chloramine Disinfectant

PWS Type: Community (C) and Non-Transient, Non-Community (NTNC)

PWS Source Type: Groundwater (GW), Groundwater Under the Direct Influence of Surface Water (GU), and Surface Water (SW)

331	Water System Facility	Level Type	Analyte Name	Analyte Code	Level and Unit of Measure	Number of Samples Per Day	Monitoring and Reporting (M&R) Violation Type Code	Treatment Technique (TT) or MCL Violation Type Code	Check MDBP Summaries (Yes/No)	MDBP Summary Type
	Distribution System	MAX	CHLORINE	0999	4.0 mg/l	N/A	27 MJ	11	Yes	MRDL
	OR									
	Distribution System	MAX	CHLORAMINE	1006	4.0 mg/l	N/A	27 MJ	11	Yes	MRDL

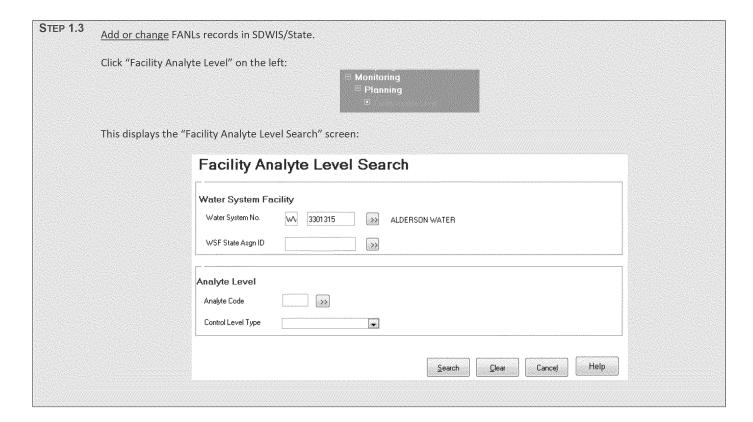
FANLs for New PWS (continued)

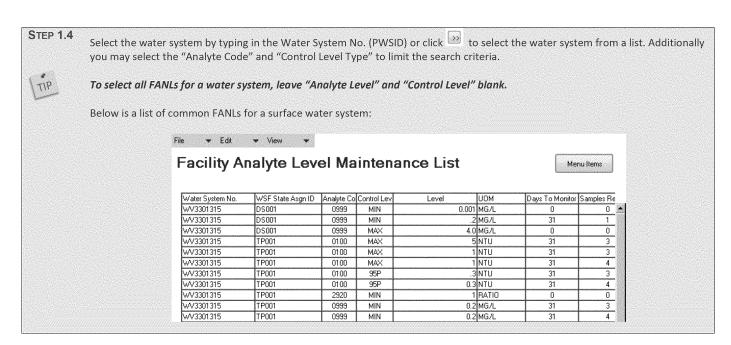
Treatment: Direct or Conventional Filtration

PWS Type: All PWS Types, including: Community (C), Non-Transient, Non-Community (NTNC), and Transient, Non-Community (NC)

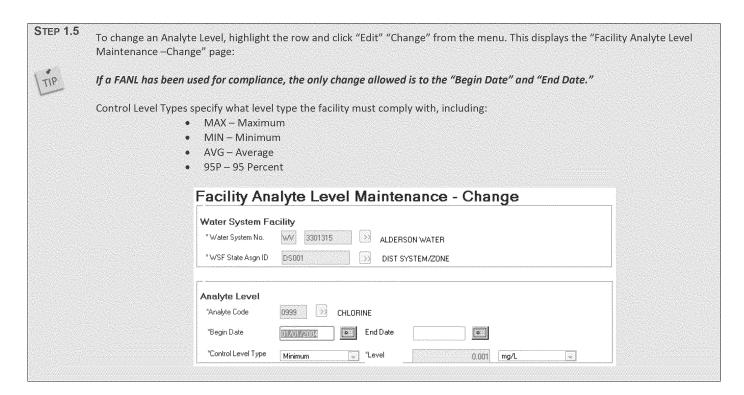
PWS Source Type: Groundwater Under the Direct Influence of Surface Water (GU), and Surface Water (SW)

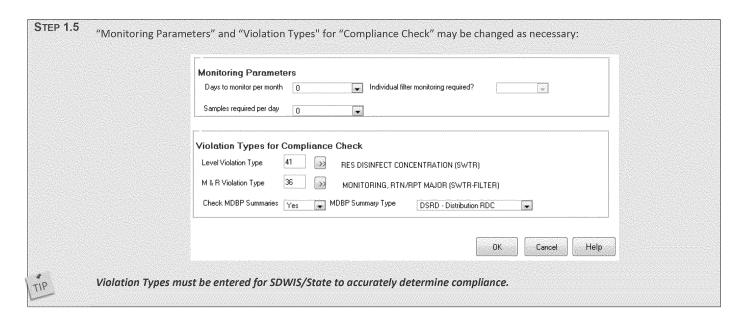
Water System Facility	Level Type	Analyte Name	Analyte Code	Level and Unit of Measure	Number of Sample s Per Day	M&R Violatio n Type Code	TT or MCL Violatio n Type Code	Check MDBP Summarie s (Yes/No)	MDBP Summar y Type
Treatment Plant Entry Point	MIN	CARBON, TOTAL	2920	1.0 Ratio	N/A	N/A	46	No	NA
	MAX	CHLORINE DIOXIDE	1008	0.8 mg/l	1	27	N/A	Yes	CLO2
	MAX	CHLORITE	1009	1.0 mg/l	1	27	N/A	Yes	CLO3
Distribution System	MAX	CHLORINE DIOXIDE	1008	0.8 mg/l	N/A	N/A	N/A	No	N/A
	MAX	CHLORITE	1009	1.0 mg/l	N/A	N/A	02	No	N/A





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SECTION 2. Enter DBPR Sample Schedules in SDWIS/State

DBPR sample schedules are used by SDWIS/State for automated compliance determination. SDWIS/State uses DBPR schedules to determine Running Annual Averages (RAA) and Locational Running Annual Averages (LRAA). FANLs are used in conjunction with sample schedules for automated compliance determination. In some cases, sample schedules must be "packaged" or associated for accurate automated compliance determination.

STEP 2.1 Enter DBPR sampling schedules for CTHM (total trihalomethanes) and CHA5 (haloacetic acids).



TIP

Narrow the search criteria by selecting a "WSF State Asgn ID" or "Analyte/Analyte Group Code".

Click Search to display all current schedules:



Sample Schedule Maintenance List

 Water System No.
 WSF State Asgn ID
 Water IAnalyte C Sample C Sample C Sample Begin Date
 End Date
 Start M Day
 End Mc Day
 Vio. Type
 Initial Mon Prd Begin Date

 w/3304911
 DS001
 SW
 CHAS
 1
 RT
 0T
 01/01/2010
 0
 0
 0
 0
 27
 01/01/2010

 w/3304911
 DS001
 SW
 CL90
 10
 RT
 37
 01/01/2002
 6
 1
 9
 30
 52
 01/01/2002

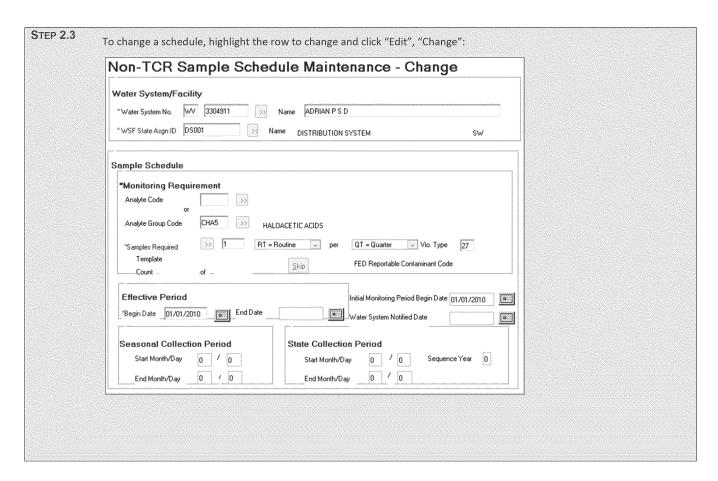
 w/3304911
 DS001
 SW
 CTHM
 1
 RT
 0T
 01/01/2010
 0
 0
 0
 0
 27
 01/01/2001

Menu Items



The only change allowed to a sample schedule is to add the "Effective Period End Date". This ends the schedule. Compliance will not be determined for this schedule after this date. Usually a schedule is ended because the monitoring frequency has changed. It is good practice to end the schedule at the end of a monitoring period and start the new schedule on the first day of the next monitoring period during which the next sample must be collected.

STEP 2.2 To add a new schedule, click "Edit", "Add Non-TCR" from the menu.



STEP 2.4						
	Add the "Max the list.	imum Residence Tii	me" and/or "AVGRI	ES" sample points by clicking "A	Add" and selecting the sample poin	nt from
	If the schedule	e is for an "Initial Di	stribution System E	valuation" (IDSE), select the S	² IDSE sampling point.	
		Sampling Point Su	ubschedules			
		WSF State Asgn ID DS001	Sampling Point MAXRES	Location MAXIMUM RESIDENCE TI	Count 1 🛕	
		Add Modi	fy Delete			
		*Substitute Result Indicator	0 = Optionally	Monitoring Assessment S - Same		
TIP	The "Substitu	te Result Indicator'	' should always be	"O-Optionally."		
				to determine if a schedule is a t flags used for DBPR schedule	candidate for increased or decreas s are:	sed
	• 1-1	Reassess if new dat ncreased Same	a			
	If the CTHM a		s annual or less fred	quent, enter the month of war	mest temperature in the "Seasonal	I .
				al Collection Period		
			Start N	fonth/Day 7 / 1		
			End M	onth/Day 7 / 31		

The "Substitute Result Indicator" should always be "O-Optionally."

"Monitoring Assessment" is what SDWIS/State uses to determine if a schedule is a candidate for increased or decreased sampling. The most common Monitoring Assessment flags used for DBPR schedules are:

- A Reassess if new data
- I Increased
- S Same

If the CTHM and CHA5 schedule is annual or less frequent, enter the month of warmest temperature in the "Seasonal Collection Period":

Seasonal Collection Period Start Month/Day 7 / 1 End Month/Day 7 / 31

STEP 2.5

Each SW or GU system that provides conventional filtration must have schedules for TOC and Alkalinity.

Add schedules for raw water TOC and Alkalinity.

- The facility type must be the raw water source (e.g. intake, spring, well, or other source).
- The Analyte Group Code must be "CTOA".
- The sampling frequency must be monthly or quarterly.

STEP 2.6

Add schedules for finished water TOC:

- The facility type must be a Treatment Plant.
- The Analyte Code (not Analyte Group Code) must be "2920."
- The sampling frequency must be the same as the raw water "CTOA" schedule.



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Each treatment plant must have a set of raw and finished TOC schedules. STEP 2.7

Package raw and finished TOC and Alkalinity schedules.

Raw and finished TOC and Alkalinity schedules must be "packaged" so that SDWIS/State can calculate the DBP Precursor removal ratio.

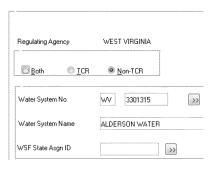
To package sample schedules, click "Monitoring", then "Sample Schedules" on the left:



STEP 2.8

Select "Non-TCR" and the "Water System No." Leave "WSF State Asgn ID" blank.

Sample Schedule Search



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STEP 2.9

DBPR SOP: ENTER DBPR SAMPLE SCHEDULES IN SDWIS/STATE



button to display the "Sample Schedule Maintenance List".

STEP 2.10

The Sample Schedule Maintenance List will include the CTOA and 2920 schedules.

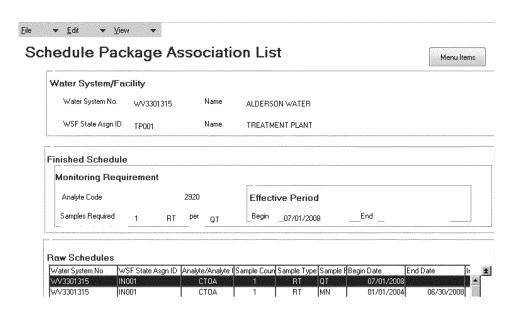
Click on the finished water TOC schedule (the 2920 schedule) to highlight the row. From the menu click "Edit" "Package Schedules" to display the "Schedule Package Maintenance List":



STEP 2.11

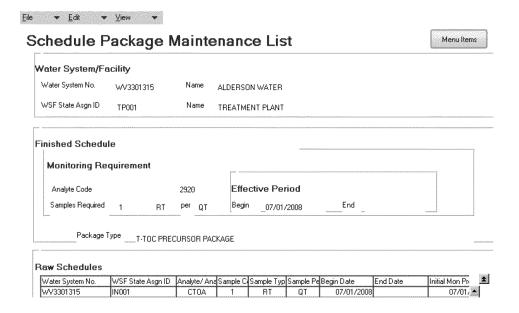
Click "Edit," "Associate" to display the "Schedule Package Association List. This list contains the raw water TOC and Alkalinity schedules. Click on the appropriate schedule to highlight it:

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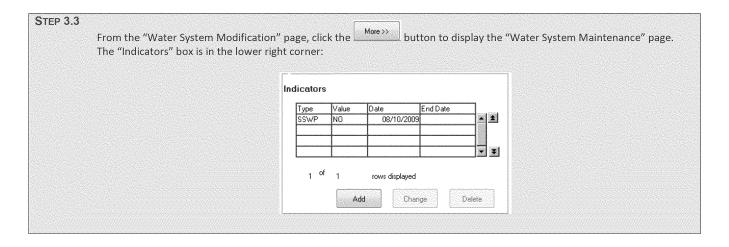
STEP 2.12

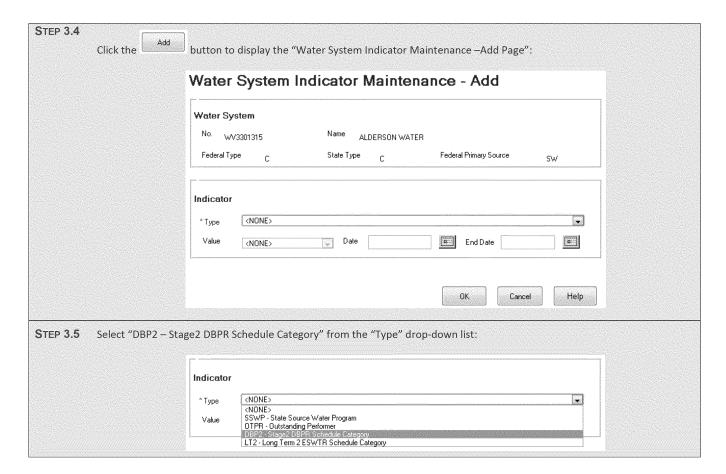
Click "Edit, "Select" from the menu to add the raw schedule:

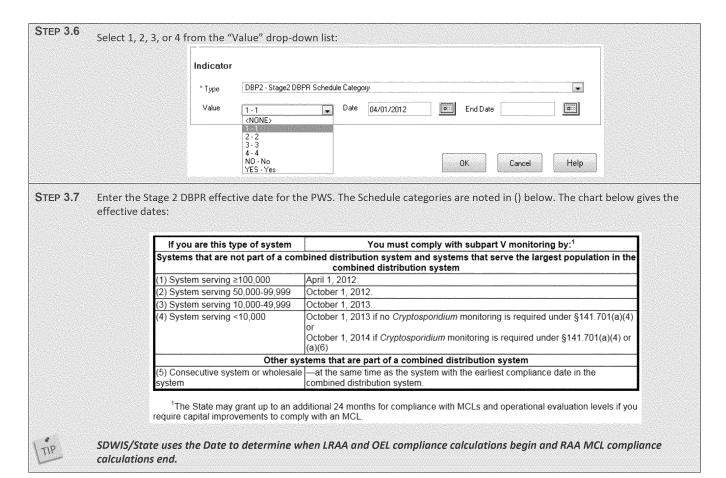


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STEP 3. The Stage 2 DBPR becomes effective for water system based on population and membership in a combined distribution system. The effective date is when compliance calculations changes from Running Annual Average (RAA) to Locational Running Annual Average (LRAA). The Effective Date corresponds to a "Schedule Category". This is recorded in SDWIS/State as a Water System Indicator. STEP 3.1 Add "Stage 2 DBP2 Water System Indicator" to specify the "Schedule Category". Click "Modify Water System" from the menu on the left: Inventory Add Basic Water System Add Basic Water System STEP 3.2 From the "Water System Search" page, enter a "Water System No." or click the from a list.







STEP 4.1 If an extension to the Stage 2 DBPR MCL was granted it must be entered into SDWIS/State to support automated compliance determination. This is recorded in SDWIS/State as a Water System Facility Indicator. Add Stage 2 DBP2 MCL Extension Water System Facility Indicator. Click "Modify Water System" from the menu on the left: Inventory Add New Water System Add Basic Water System STEP 4.2 From the "Water System Search" page, enter a Water System No. or click the from a list.

Meru Items
SW
SW
SW
ability Federal ID No. Source
209 Y A
9749 N 14719 N
14773 N
14721 N
3907 N

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STEP 4.6	Scroll to the bot	ttom of the pa	ge to the "Indicat	or" box:				
	lı	ndicators	et te t	344,00	Contraction (i.e., 1948) to the best of the second contraction and an account of the second contraction and		eller Special filmenial freite hand des de bied de de bied de de bied de de	
		Type EMER	Value NO	Date		End Date]I <u>=</u> I	
		EMER	NO					
							· *	
		Number of rows disp	olayed: 2		Add	Change Delete		
STEP 4.7	Click the Subpart V MCL	button to Extension" fro	m the drop-down	list.	E ASSESSES AND THE PROPERTY OF	aintenance-Add" pag	ge. Selec	t "LVME- LRAA DBPR2
						OK Cancel	He	lip
STEP 4.8	Enter the date t	the extension g	ends in the "Date"	' (not "End Date".)				
TIP	The start date of	of the extensio	n is the same as	the date recorded	in the "DB	P2" Water System Ir	dicator.	
						on the RAA. OELs wil s, LRAA calculations		calculated. over and OELs will be

Note: During the extension period MCL violations will continue to be based on the RAA. OELs will not be calculated. Monitoring violations will still be calculated. When the extension period ends, LRAA calculations will start over and OELs will be calculated.

STEP 5.1

SDWIS/State calculates LRAAs and uses them to determine MCL and Operational Evaluation Level (OEL) compliance. This calculation is performed when at least three results are present and at least one result is present for the quarter.

To view LRAA and OEL calculations click "Sampling", "Maintain Result Averages":



STEP 5.2

Add Water System No. and WSF State Asgn ID. Click the bto select from a list.



Distribution System WSF State Asgn ID is always "DS001".

Click the to select the sample schedule.



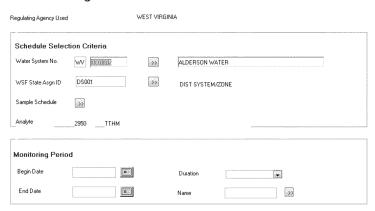
Sample Schedule Maintenance List

Water System No.	WSF State Asgn ID	Water	TAnalyte C	Sample C	Sampl	Sample	Begin Date
WV3301315	DS001	SW	1022	10	RT	3Y	01/01/2002
WV3301315	DS001	SW	1030	10	RT	3Y	01/01/2002
WV3301315	DS001	SW	2456	1	RT	QT	01/01/2004
WV3301315	DS001	SW	2950	1	RT	QΤ	01/01/2004

STEP 5.3

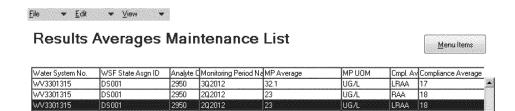
Select the row where analyte code is 2950 for TTHM and 2456 for HAA5. Click "Edit", "Select" from the menu.

Results Averages Search



STEP 5.4

Click the Search button to display the Results Averages Maintenance List:



STEP 5.5

Click "Edit", "Change" from the menu to display the "Results averages Maintenance page. Scroll to the bottom to view the "Monitoring Period Average" and "Compliance Averages" boxes:

Average	23		ug/L v	Number of Results	s Used 1
MCL Con	npliance Method	RAA - Running Annual A	verage	Total Days	91
Date Rep	ported			Precursor Achieve	ed Removal Ratio
nents	9000	A			
nents	COLUMN ASSESSMENT OF A SPACE				
mnlie	nco Average				
_	ince Averages	UOM	Sampling Point	Number of Re:	Precursor Achieved Removal (BIN
Гуре РАА	Average 18	UOM UG/L	Sampling Point	4	Precursor Achieved Removal (BIN
уре ВАА	Average	UOM	Sampling Point		
уре ВАА	Average 18	UOM UG/L		4	
o mplia Type RAA LRAA	Average 18	UOM UG/L		4	



Since SDWIS/State makes these calculation during Compliance Determination Setup, these values seldom need to be changed.

Comments may be added to the "Comments" box.

STEP 5.6

To change a Compliance Average, highlight the row and click the Change button to display the "Compliance Average Maintenance" page. Scroll down to the "Compliance Average" box. Make appropriate changes.

	Compliance	Average	Туре	LRAA			
	Average	18	AAAAAAA	ug/L	Number of Results Used	4	
	Date Reported			Precursor Achieved Remov	al Ratio	BIN	edisonlands and a second and a
	Comments		***************************************				
				Re	cord updated by CDSSETUP	on 06/28/2012:20.	01.53
				ūκ	Recalc Using CDS Setup	<u>C</u> ancel	Help
O F 7				<u>V</u> iew Addition	nal Compliance Data		
STEP 5.7							
Click Recalc Using CDS Setu STEP 5.8	to include	e the changed v	alue the	e next time CDS Set	up runs.		
Click the DK bu	utton to save	the record.					

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SECTION 6. OEL Compliance Determination

STEP 6.1 For the first three quarters, SDWIS/STATE calculates LRAA using the near equivalent of four in the denominator unless no result was obtained in one of the quarters.

Below is an example of an OEL Compliance Average Type taken from Slide 6, <u>SDWIS/State 3.1 Track Subpart V Compliance Part 2 (SAIC):</u>

\$255550	1000 TRANSPORT	View▼				- 1 :				***************************************
	iesu	Ilts Aver	ages M	amten	ance	e LISI				
D	Analyte Code	Monitoring Period Name	MP Average	MP UOM	Cmpl. Avg. Type	Compliance Average	Compliance Average UOM	# of Results Used for MPA	Total Days	# of Results Used for MCL Value
	2950	402011		MG/L	RAA	0.087	MG/L	0	92	12
	2950	4Q2011	1		OEL	← (1)	MG/L	0	0	0
	2950	4Q2011			OEL		MG/L	0	0	0
	2950	4Q2011			OEL		MG/L	0	0	0
	2950	402011			OEL		MG/L	0	0	C
	2950	4Q2011			LRAA	0.088 (2)	MG/L	o	0	
de Milita	2950	4Q2011			LRAA	0.095	MG/L	0	0	3
	2950	402011			LRAA	0.083	MG/L	0	0	3
	2950	4Q2011	I		LRAA	0.083	MG/L	0	0	3
	2950	3Q2011	0.0913	MG/L	RAA	0.080	MG/L	4	92	16
	2950	302011	0.0917	MG/L	OEL	0.089 (3)	MG/L	1	92	3
	2950	3Q2011	0.0962	MG/L	OEL	0.095	MG/L	1	92	3
	2950	3Q2011	0.0806	MG/L	OEL	0.082	MG/L	1	92	3
	2950	3Q2011	0.0965	MG/L	OEL	0.086	MG/L	1	92	3
	2950	3Q2011	0.0917	MG/L	LRAA	0.079	MG/L	1	92	4
	2950	3Q2011	0.0962	MG/L	LRAA	0.085	MG/L	1	92	4
	2950	3Q2011	0.0806	MG/L	LRAA	0.078	MG/L	1	92	4
	2950	302011	0.0965	MG/L	LRAA	0.076	MG/L	1	92	4
anne il	2950	202011	0.104	MG/L	RAA	0.057	MG/L	4	91	12
1										
•	id.									
i bis	3									

STEP 6.2 When an OEL exceeds the MCL, SDWIS/State issues a CDS Setup Advisory message and creates an OEL Compliance Schedule. At the time this SOP was written, WVDOH did not have any OEL results averages or OEL Compliance Schedules entered into SDWIS/State.¹

The CDS Setup Advisory report should be reviewed every day.

 $^{^{\}rm 1}$ As of December 2013. WV or R3 should investigate.

STEP 6.3	Click "Compliance Determination", "Post-Compliance Decision Support Processing", "Review Reports, Logs and Advisories" on the left to display the "Post-Compliance Decision Reports List" page:
STEP 6.4	Compliance Determination ☐ TCR Compliance Determination ☐ Compliance Decision Support ☐ Post-Compliance Decision Support Processing ☐ Migrate CDS Candidate Violations ☐
31EP 0.4	To filter the list, select "ADV-CDS Setup Advisory Report" from the "Report Type" drop-down list, then click Post-Compliance Decision Reports List Search log files and reports
	Report Type ADV - CDS Setup Advisory Report User ID Generation Date Range Begin Date
	End Date Search Clear Close Help

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STEP 6.5				
	Click on th	ne blue links	to display	the report:

File	User ID	Date	Report Type	File Type
CDSETUP ADV 20131	229_200937.pdf	UP 12/29/20)13 ADV	pdf
CDSETUP ADV 20131	229_200735.pdf	UP 12/29/20)13 ADV	pdf
CDSETUP_ADV_20131	229_200053.pdf	UP 12/29/20)13 ADV	pdf
CDSETUP_ADV_20131	229_195613.pdf	UP 12/29/20)13 ADV	pdf

STEP 6.6 ADV-CDS Setup Advisory Report:

CDS Setup Advisory Report Messages

LOG IS NUMBER : 14 LAUNCHED BY : SDWISADM

CDS_HIST_DATE : 01/01/2002

CDS_SETUP_START: 12/29/2013 8:00 PM

CDS SETUP END : 12/29/2013 8:00 PM

PROCESS CALCULATE MCL VALUES

Message \$25: The following CDS Candidate MCL Violation was created . Use the Migrate Candidate Violations component to process the violation.

WV3301315 ALDERSON WATER C 2680 SW Sampling Point WSF ST SAMPLING ASGN ID PT ID DESCRIPTION	PWS							F	ED PRIM
Sampling Point WSF ST SAMPLING ASGN ID PT ID DESCRIPTION	NUMBER	PWS NAME				PWS	TYPE	POPULATION	SRC
WSF ST SAMPLING ASGN ID PT ID DESCRIPTION	WV3301315	ALDERSON	WATER				C	2680	SW
ASGN ID PT ID DESCRIPTION	Sampling F	oint							
	WSF ST	SAMPLING							
DS001	ASGN ID	PT ID	DESCRIPTION						
	DS001								
	CDS Candid	late Viola	tion						
CDS Candidate Violation	WSF ST	ANALYTE	VIO TYPE ST VI	O PRD	ST V	IO PR	D		

WSF ST ASGN ID DS001 TYPE ST VIO PRD ST VIO PRD DE BEGIN END 04/01/2013 06/30/2013 CODE CODE

DESCRIPTION

FED PRIM NUMBER POPULATION WV3301315 ALDERSON WATER Sampling Point WSF ST ASGN ID DS001 SAMPLING PT ID

Compliance Schedule Maintenance - Change							
Water System *+ No. KS 2000119	Name PUBLIC	WHOLESALE WSD 5	5				
Compliance Scheo No. State Asgn ID No. *Regulating Agency Compliance Officer Schedule Type Effective Date Closed Date Description	KANSAS DEPT OF HEALTH A OEL - Evaluation of disinfection 06/30/2011		>>> ceedance of an OEL Final 04/24/2012				
Compliance Scher							
Name SUBMIT WRITTEN H.	AAE OF DEPORT	Due Date 09/28/2011	Achieved Date	(Derived) Overdue	Vio. Type		

SECTION 7. MCL Compliance Determination

STEP 7.1 When a quarterly LRAA exceeds the MCL, SDWIS/State creates a candidate MCL violation and issues a CDS Setup MCL Advisory. At the time this SOP was written, WVDOH did not have any LRAA violations in SDWIS/State.



CDS Setup Advisory reports should be reviewed every day and MCL violations should be migrated into SDWIS/State. High chlorine dioxide and chlorite results are identified on this report and should be reviewed each day as well.

SDWIS/STATE:

- Creates separate MCL violations for each sampling point.
- Associates violation to the sampling point.
- Sets the violation's "Number of Exceedences" to 1.
- Sets the violation's "Analysis Result" to the LRAA value & unit of measurement.

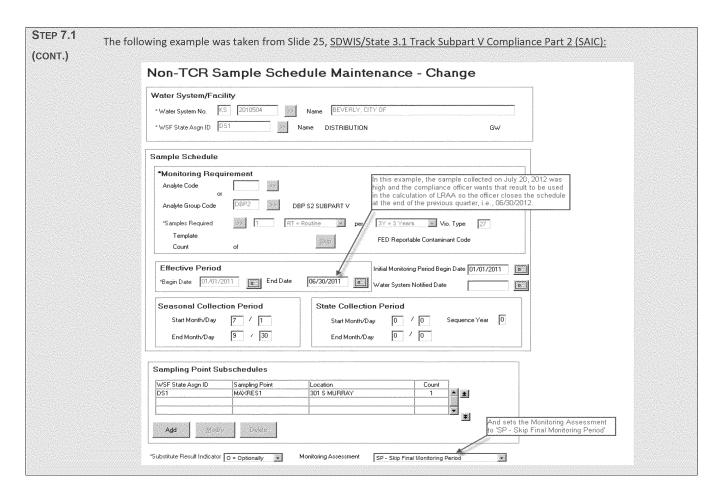
If more than one violation is created for the same water system for a given quarter, the violations must be combined into one violation or packaged so that only one violation is reported to SDWIS/Fed.

When an LRAA exceeds the MCL and the schedule is **NOT quarterly**, SDWIS/State does not create a candidate MCL violation. SDWIS/State does issue a CDS Setup Advisory.

To use the high annual/triennial result in the next quarterly calculations:

- Close the annual/triennial schedule on the last day of the previous quarter;
- Set the Monitoring Assessment field to "SP-Skip Final Monitoring Period".

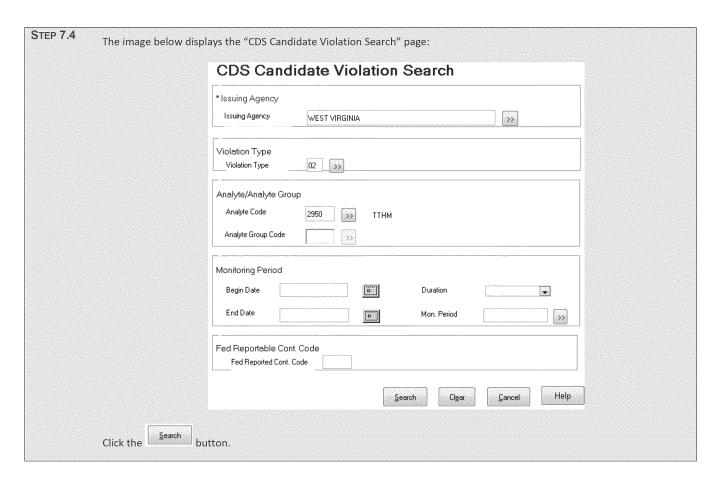
See below for an example.



STEP 7.2	Begin the new quarterly schedule on the first day of the quarter in which the sample was collected. The following example was taken from Slide 13, SDWIS/State 3.1 Track Subpart V Compliance Part 2 (SAIC): Non-TCR Sample Schedule Maintenance - Add
	Water System/Facility *Water System No. KS 2010504 >>> Name BEVERLY, CITY OF *WSF State Asgn ID DS1 >>> Name DISTRIBUTION
	*WSF State Asgn ID US1 Sample Schedule
	*Monitoring Requirement Analyte Code or Analyte Group Code DBP2 >>> DBP S2 SUBPART V Start the quarterly schedule on the first day of the quarter in which the high annual/triennial result was collected.
	"Samples Required >> 1 RT = Routine per QT = Owarter Vio. Type 27 Template Count of FED Reportable Contaminant Code DBP2
	Effective Period Begin Date 07/01/2011 End Date Water System Notified Date Water System Notified Date
	Seasonal Collection Period Start Month/Day 7 / 1 Start Month/Day 0 / 0 Sequence Year 0 End Month/Day 7 / 31 End Month/Day 0 / 0
	Sampling Point Subschedules
	WSF State Asgn ID Sampling Point Location Count DS1 MAXRES1 301 S MURRAY 1

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Process candidate violation into SWIS/State. Click "Compliance Determination", "Post-Compliance Decision Support Processing", "Migrate CDS Candidate Violations" on the left: Compliance Determination TCR Compliance Determination Compliance Decision Support Post-Compliance Decision Support Processing Telephone Telephone Decision Support Processing Telephone Decision Support Processing Telephone Decision Support Processing

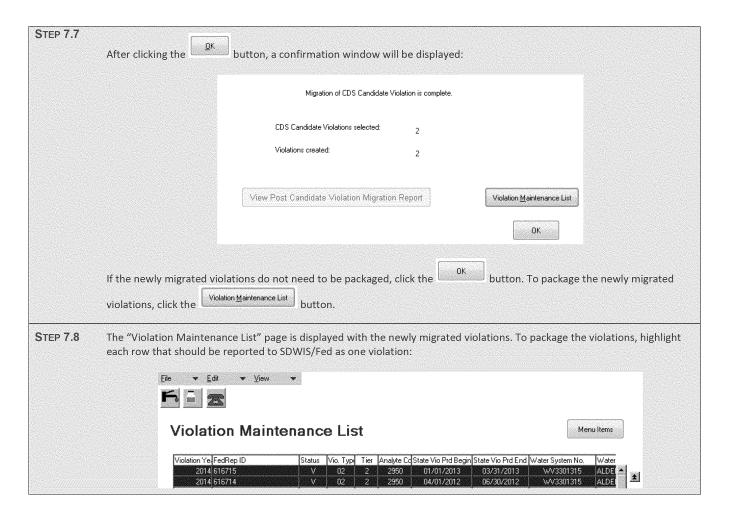


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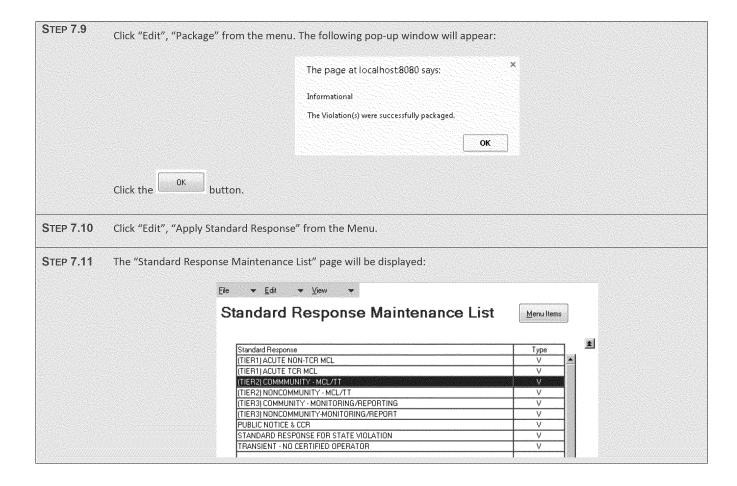
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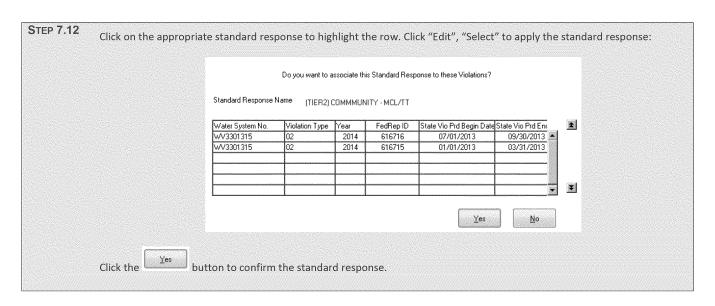
STEP 7.5	The "CDS Candidate Violation Migration List" is displayed.								
	CDS Ca	CDS Candidate Violation Migration List Menultems				u Items			
	WV3301315 WV3301315 WV3301315 WV3301315	WSF State Asgn ID Vio. Ty DS001 02	Analyte Code 2950 2950 2950 2950 2950 2950	/ A State Violation 10/01/2012 07/01/2013 07/01/2012 04/01/2013 01/01/2013 04/01/2012	Pe State Violation 12/31/2012 09/30/2013 09/30/2012 06/30/2013 03/31/2013 06/30/2012	PeFed Violation Pe 10/01/2012 07/01/2013 07/01/2012 04/01/2013 01/01/2013 04/01/2012	eri Fed Violation F 12/31/2012 09/30/2013 09/30/2012 06/30/2013 03/31/2013 06/30/2012	Peri Violatic MCL, MCL, MCL, MCL, MCL, MCL, MCL	
STEP 7.6	Highlight the violations to m displayed:	igrate. From the	menu clic	k "Edit", "I	Migrate as	Validated"	. The follo	wing pop	-up window will be
		All selected CDS ca issuing agency and				ggovernment ager	ncy as the		
		The selected violati	on(s) will be migr	ated with a status	of Validated.				
		* Issuing Agency	WEST VIRO	GINIA			22		
		Violations to be Mig		2014					
		Status Reason	<none></none>						
		Comments							
					<u>o</u> k	Cancel	<u>H</u> elp		
	Click the DK button.								



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SECTION 8. Monitoring and Reporting Compliance Determination

STEP 8.1 SDWIS/State evaluates M&R compliance for Stage 1 DBPR schedules if present as well as Stage 2 DBPR schedules.

Click "Compliance Determination", "Compliance Decision Support", "Water Treatment Compliance Report" on the left:



Water Treatment Con	npliance Reports	
* Select one or more reports to run	440/40 + 140 ⁴ 1 + 440/40 + 14	Use the "Stage 1/2
Entry Point RDC (Federal)	₹ Stage 1/21THM/HAASM/R	TTHM/HAA5 M/R" compliance check for Subpart V M/R
C Entry Point RDC (State)	C DBP Precusors	compliance determination
C Distribution RDC (Federal)	C Bromate/Bromide M/R	If there are both Subpart L and Subpart V schedules in the
C Distribution RDC (State)	Chlorine/Chilosenine MRDL	period selected, both will be
□ Tubidy	C Entry Point Chlorine Disside/Chlorine	checked
CLT2 Source Water M/R	C Distribution Chlorine Disside/Chlorite	
C LT28in Report	☐ Stage 2 IDSE M/R	
□ GWR Assessment M/R	TTHHM/HAAS Support Report	Andreas de la companya del companya de la companya del companya de la companya del la companya de la companya d
C GWR Addkond M/R	E our loyed MR	nine -
* Regulating Agency/Water System Regulating Agency KANSAS DEPT OF I Water System No. (S)	HEALTH AND ENVIRONMENT 35	The End Date Range selects periods to check based on the Applicable Period End Date. For triennial schedules, the Applicable Period End Date = the Seasonal Collection Period End
* Monitoring Period/Applicable Per	riod End Date Renge 4	Month & Day plus the last year o
Between 07/01/2011	(07/00/2011) [13]	the 3-year monitoring period (e.g., 8/31/2011 for 2009 - 2011 period with Seasonal Collection
	QK Carcel Help	Period of 8/1 - 8/31)

Review the Water Treatment Compliance report. If results are missing in SDWIS/State, SDWIS/State will calculate a candidate violation.

- Add any missing results.
- Wait until CDS Setup runs the next time.
- Review CDS Setup advisory messages.
- Run Water Treatment Compliance Report again.

Repeat these steps until the Water Treatment Compliance Report contains only valid violations.

STEP 8.4 Migrate candidate M&R violations and apply the standard response as described in the SECTION 7.

This report should be run monthly and quarterly, and candidate violations migrated into SDWIS/State.

STEP 8.5 Water Treatment Compliance Report:

Water Treatment Compliance

Report Run Time Stamp: 12/30/2013 07:18:30 AM Report Run User ID: SDWISADM

Selection Criteria

Regulating Agency: WEST VIRGINIA Monitoring Period/Applicable Period End Date Range: 07/01/2011 to 09/30/2011

WEST VIRGINIA 07/01/2011 to 09/30/
Compliance Checks Selected;

Stage 1/2 TTHM/HAA5 M/R Check

Analyte group DD01 contains analytes other than those for which compliance is being determined. If there are sample schedules with this Analyte group, Monitoring and Reporting compliance will not be determined.

The advisory message shown above does not require any action.

TIP

STEP 8.6 Candidate M&R and TT for Stage 1 / 2 TTHM/HAA5 violations are displayed:

Candidate M/R and TT Violations					
PWS Name	WSF Name	No. of	Related		
ID-Status-Type-Fed Source-Pop-Act. Date Vio. Type Analyte/Analyte Group	ID-Status-Type-AvailWater Type-Act. Date State Violation Period Federal Violation Period	Results	Sample Schedule Info		
Comments					
ALLIANT TECH SYSTEMS INC	DISTRIBUTION SYSTEM		01/01/2004 to	/	/
WV9929007-A-NTNC-GU-1,600-09/01/1978	DS001-A-DS-P-GU-09/01/1978	0	1 RT per QT		
27 MJ CTHM	3Q2011 (07/01/2011 to 09/30/2011)				
TRIHALOMETHANES	07/01/2011 to 09/30/2011				
ALLIANT TECH SYSTEMS INC	DISTRIBUTION SYSTEM		01/01/2004 to	/	1
WV9929007-A-NTNC-GU-1,600-09/01/1978	DS001-A-DS-P-GU-09/01/1978	0	1 RT per QT		
27 MJ CHA5	3Q2011 (07/01/2011 to 09/30/2011)				
HALOACETIC ACIDS	07/01/2011 to 09/30/2011				

Appendix A: Primary DBPR Acronyms and Definitions					
ABBREVIATION	DESCRIPTION				
Community Water System (CWS)	A public water system which serves at least 15 service connections used by year-round residents or regularly serves at least 25 year-round residents.				
Consumer Confidence Reports (CCR)	The Consumer Confidence Rule requires public water suppliers that serve the same people year round (community water systems) to provide consumer confidence reports (CCR) to their customers.				
Compliance Decision Support (CDS)	This is the area of SDWIS/State that provides information to Compliance Officers regarding sample analytical results, sample summaries, sample schedules, and compliance schedules.				
Compliance Officer (CO)	Responsible for developing compliance schedules and data entry into SDWIS/State. Must have completed SDWIS/State training.				
Disinfectant and Disinfection Byproducts Rules (DBPRs)	Includes Stage 1 and Stage 2 Disinfectants and Disinfection Byproducts Rules that reduce exposure to disinfection byproducts for customers of community water systems and non-transient non-community systems, including those serving fewer than 10,000 people, and add a disinfectant to the drinking water during any part of the treatment process.				
Haloacetic Acids (HAA5)	A group of chemicals that are formed along with other disinfection byproducts when chlorine or other disinfectants used to control microbial contaminants in drinking water react with naturally occurring organic and inorganic matter in water.				
	HAA5 = Sum of Monochloroacetic Acid (MCAA), Dichloroacetic Acid (DCAA), Trichloroacetic Acid (TCAA), Monobromoacetic Acid (MBAA) and Dibromoacetic Acid (DBAA).				
Maximum Contaminant Level (MCL)	Maximum permissible level of a contaminant in water which is delivered to any user of a public water system.				

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National Primary Drinking Water Regulations (NPDWR)	National Primary Drinking Water Regulations (NPDWRs or primary standards) are legally enforceable standards that apply to public water systems. Primary standards protect public health by limiting the levels of contaminants in drinking water. Visit the list of regulated contaminants with links for more details.
Non-Transient, Non-Community Water System (NTNCWS)	A public water system that is not a community water system and regularly serves at least 25 of the same persons during a minimum of at least 6 months of each year.
Public Water Supply (PWS)	A system that provides piped water for human consumption, which has at least 15 service connections or regularly serves an average of at least 25 individuals daily for at least 60 days of the year. It includes: 1) the collection, treatment, storage, and distribution facilities operated and used by the system, and 2) any collection or pretreatment storage facilities not under the control of the system, but which it primarily uses.
Return to Compliance (RTC)	Following a violation, a system has completed the necessary actions to be in compliance with the National Primary Drinking Water Regulations.
Safe Drinking Water Information System (SDWIS)	Contains information about public water systems and their violations of EPA's drinking water regulations. Used by West Virginia Department of Health and Human Services for a variety of purposes, including to: enter and maintain sample schedules, review analytical results, migration of violations, enter enforcement actions, enter and maintain compliance schedules, and view compliance reports.
Trihalomethanes (TTHM)	A group of four chemicals that are formed along with other disinfection byproducts when chlorine or other disinfectants used to control microbial contaminants in drinking water react with naturally occurring organic and inorganic matter in water. The trihalomethanes are chloroform, bromodichloromethane, dibromochloromethane, and bromoform.
Transient Non-community Water Systems (TNCWSs)	Non-community water system that does not regularly serve at least 25 of the same persons over six months per year.
West Virginia Department of	Primary enforcement authority for the federal DBPR Rules.

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